

Hazardous Weather: Week of 16 November 2009



Continued threat of flooding, damaging winds, landslides and avalanches

Kirby Cook National Weather Service

17 November 2009



Overview



- A series of strong Pacific frontal systems impacting Western Washington this week
 - First one Sunday night
 - Second system Monday night
 - Somewhat of a break today
 - A third on Wednesday Thursday
- Impacts
 - Heavy rainfall likely to resume again Wednesday evening into Thursday... mainly over the Olympics and North Cascades
 - Flooding remains a concern, most likely for Olympic Peninsula and North Cascades rivers through early Friday; concern for the Chehalis
 - Landslide threat has increased with precipitation earlier this week
 - Mountain snow for Cascades with renewed avalanche threat
 - Periods of strong, damaging winds remain possible across western Washington Wednesday afternoon/evening



Monday Summary



OFFICIAL LOW LAND OBSERVATION SITES.

HOQUIAM AIRPORT 70 MPH
BELLINGHAM AIRPORT 58 MPH
NAS WHIDBEY 56 MPH
EVERETT /PAINE FIELD/ 46 MPH
QUILLAYUTE 46 MPH
FRIDAY HARBOR 45 MPH
BREMERTON 39 MPH
EAST SOUND 39 MPH
ARLINGTON 38 MPH
SHELTON 38 MPH
TACOMA INDUSTRIAL AIRPORT 38
MPH
BOEING FIELD 36 MPH
ENUMCLAW 36 MPH
OLYMPIA 36 MPH

SEA-TAC AIRPORT 36 MPH

NATIONAL WEATHER SPOTTER REPORTS

VAIL 56 MPH ABERDEEN 53 MPH ANACORTIS 53 MPH

MOUNTAIN OBSERVATIONS

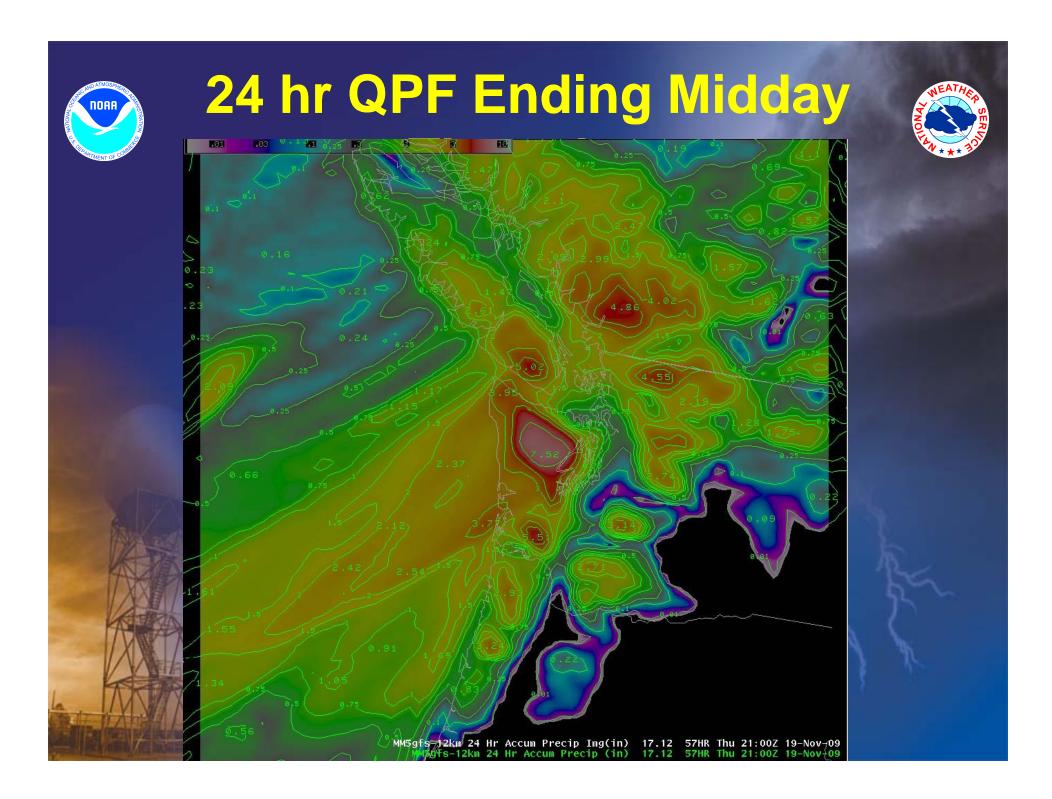
CRYSTAL MOUNTAIN 115 MPH MOUNT BAKER 88 MPH ALPENTAL 57 MPH

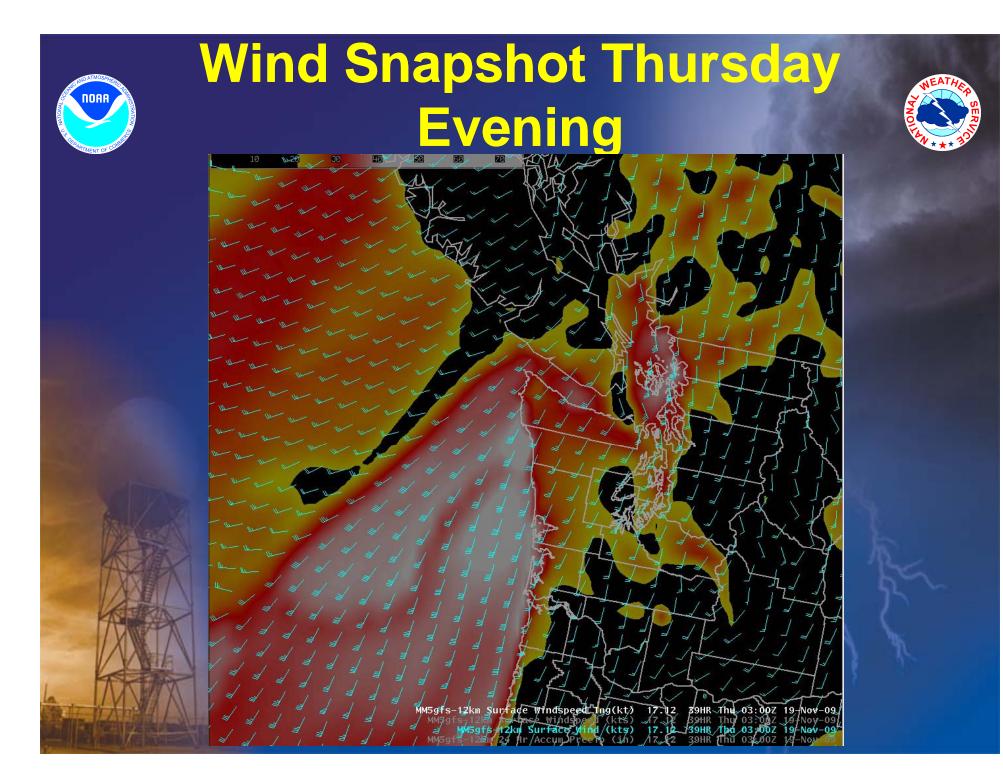
MARINE OBSERVATIONS

POINT WILSON 61 MPH
TATOOSH ISLAND 61 MPH
DESTRUCTION ISLAND 60 MPH
ALKI POINT 55 MPH
SMITH ISLAND 55 MPH
POINT ROBINSON 54 MPH

TOP 10 24 HOUR RAINFALL TOTALS ENDING AT 6 AM TUESDAY MORNING

FRANCIS 6.00 INCHES
VERLOT 5.70 INCHES
MOUNT BAKER 5.06 INCHES
CUSHMAN DAM 5.00 INCHES
QUINAULT 4.35 INCHES
QUILCENE 4.18 INCHES
CRYSTAL MT 3.53 INCHES
PORT ANGELES 2.95 INCHES
SHELTON 2.95 INCHES
HOQUIAM 2.69 INCHES







Precipitation Forecast



- Rainfall amounts 24-hour totals ending midday Thursday
 - Lowlands: ½ to 1 inch
 - Mountains:
 - Olympics 5 to 10 inches
 - North Cascades 3 to 6 inches
 - Central Cascades 1 to 3 inches
 - Willapa Hills 3 to 6 inches
 - Freezing Level 2000-3500 ft Cascades, 4000-5000 ft Olympics



Flooding (past rain)



Warning

- Skokomish at Major flood
- Stillaguamish at Minor flood
- Satsop at Minor flood

Watch

- Chehalis river
 - Current model forecast shows stage increasing through the rest of the week at lower sites (Cent and below)
 - Peaking Wednesday morning and again at a higher level Friday morning.
- Monitoring Snoqualmie



Next Round of Flooding (Thursday-Friday)



- Olympics
 - Skokomish
 - Satsop
- Southwest Interior
 - Chehalis
 - Newaukum
- Cascades
 - Little threat -- including the Green



Landslide Threat



- Isolated slides have already occurred
- Last couple of systems have helped the region exceed critical thresholds
- Additional heavy rain (~ 2 inches/24hrs)
 will heighten risk into the weekend



Wind



- Wednesday/Thursday event
 - Very similar to last two systems
 - Coast and North Interior (High Wind Watch)
 - 40 mph sustained with gusts to 60 mph
 - Mountains
 - 40 to 65 mph in exposed locations



Mountain Snow and Avalanche Danger



- Winter storm watch for the Cascades (Wednesday afternoon)
 - 1 to 3 feet over highest terrain, especially north
- Avalanche watch for North Cascades and Olympics
 - Heavy snow Wednesday and warm-up on Thursday
- Remainder Cascades
 - Risk increasing with additional snow
 - Precipitation will remain snow in the passes



Impact Summary



- Wednesday into Thursday
 - Heavy Rain / Flooding
 - Landslide
 - Strong Damaging Winds
 - Avalanche Danger
- Another briefing tomorrow (time TBD)
- Stay Tuned !!



Resources



- NWSChat Great tool to get quick personal help
- weather.gov/seattle/ NWS Seattle web site
- nwac.us Northwest Weather and Avalanche Center
- wsdot.wa.gov Washington State Dept. of Transportation
- wwc.nrcs.usda.gov/snotel Natural Resources Conservation Service (snow data)
- tidesonline.com National Ocean Service tide data

